What is claimed is:

| 1 | | 1. | A weightlifting apparatus for supporting a dumbbell, the |
|--------------------------|---|----------|---|
| 2 | apparatus comprising: | | |
| 3 | | first a | nd second side frames; |
| 4 | | elevat | ion adjustment means carried on the first and second side frames; |
| 5 | and | | |
| 6 | | at leas | t one dumbbell support coupled to the elevation adjustment |
| 7 | means for su | pportin | g a dumbbell in a plurality of different elevations. |
| | | | |
| 1 | | 2. | The weightlifting apparatus of claim 1 wherein the dumbbell |
| 2 | support com | prises: | |
| 3 | | | ularly adjustable, pivotal portion adapted for receiving and |
| 4 supporting a dumbbell. | | | |
| 1 | | 2 | |
| 1 | | 3. | The weightlifting apparatus of claim 2 wherein the angular |
| 2 | adjustable, pi | votal po | ortion includes a dumbbell receiver for supporting the dumbbell. |
| 1 | | 4. | The weightlifting apparatus of claim 3 further comprising: |
| 2 | | a notcl | n formed in the dumbbell receiver to facilitate access to the |
| 3 | dumbbell mo | | n the angularly adjustable, pivotal portion. |
| | | | |
| 1 | | 5. | The weightlifting apparatus of claim 3 wherein the dumbbell |
| 2 | receiver comp | prises: | |
| 3 | | a plate | pivotally coupled to the crossbar mount, the plate including a |
| 4 | plurality of spaced apertures; and | | |
| 5 | a latch carried on the crossbar mount and releasably engagable with one | | |
| 6 | of the apertures to adjust the angular position of the plate with respect to the crossbar | | |
| 7 | mounting por | tion. | |
| 1 | | <i>c</i> | |
| 1 2 | | 6. .: | The weightlifting apparatus of claim 2 wherein the crossbar . |
| ۷ | mounting por | uon cor | nprises: |

a collar mountable over the crossbar.

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| 1 | | 7. | The weightlifting apparatus of claim 1 further comprising: | |
|---|---|--|---|--|
| 2 | | a hori | zontal crossbar engaged with the elevation adjustment means, the | |
| 3 | dumbbell sup | ports r | mounted on the crossbar. | |
| 1 | | 8. | The weightlifting apparatus of claim 7 when the dumbbell | |
| 2 | support com | prises: | | |
| 3 | | a crossbar mounting portion for movably adjusting the dumbbell | | |
| 4 | support along the crossbar. | | | |
| 1 | | 9. | The weightlifting apparatus of claim 8 further comprising: | |
| 2 | | means | s for latching the crossbar mounting portion to the crossbar in one | |
| 3 | of a plurality of positions along the crossbar. | | | |
| 1 | | 10. | The weightlifting apparatus of claim 8 further comprising: | |
| 2 | | means | s for latching the crossbar mounting portion to the crossbar in a | |
| 3 | plurality of d | liscrete | positions. | |
| 1 | | 11. | The weightlifting apparatus of claim 10 wherein the latching | |
| 2 | means comp | rises: | | |
| 3 | | a plur | ality of spaced apertures along the crossbar; and | |
| 4 | | a spri | ng biased pin carried on the crossbar mounting portion releasably | |
| 5 | engagable w | ith one | of the apertures in the crossbar. | |
| 1 | | 12. | The weightlifting apparatus of claim 7 wherein the dumbbell | |
| 2 | support com | prises t | wo dumbbell supports. | |
| 1 | | 13. | The weightlifting apparatus of claim 1 wherein the elevation | |
| 2 | adjustment n | neans c | omprises: | |
| 3 | | a thre | aded screw supported on each of the first and second side frames | |

| 4 | | a rotative drive coupled to both screws for bi-directionally rotating both | |
|---|---|--|--|
| _ | 4 | 1 | |
| 5 | screws; and | | |
| 6 | | the dumbbell support coupled to each of the screws for elevational | |
| 7 | movement. | | |
| | | | |
| 1 | | 14. The weightlifting apparatus of claim 13 further comprised: | |
| 2 | | a horizontal crossbar movably coupled to each screw, the dumbbell | |
| 3 | support carri | ed on the crossbar. | |
| | | | |
| 1 | | 15. The weightlifting apparatus of claim 13 wherein the drive | |
| 2 | comprises: | | |
| 3 | | a electric motor mounted to the first and second side frames, the motor | |
| 4 | | the electric motor having an output shaft; and | |
| 5 | | an elongated member extending to and coupled to each screw and to | |
| 6 | the output sh | aft for transmitting rotation of the motor output shaft to each of the | |
| 7 | screws. | | |
| | | | |
| 1 | | 16. The weightlifting apparatus of claim 13 further comprising: | |
| 2 | | a rotative drive coupled to both screws for bi-directionally rotating both | |
| 3 | screws, the di | rive including: | |
| 4 | | a first rotatable member; | |
| 5 | | second and third rotatable members each fixedly coupled to one of the | |
| 6 | screws; and | | |
| 7 | | an elongated member extending to and coupled to each of the first, | |
| 8 | second and th | ird rotatable members for transmitting rotation of the drive to each of | |
| 9 | the screws. | | |
| | | | |
| 1 | | 17. The weightlifting apparatus of claim 16 wherein: | |
| 2 | | the first, second and third rotatable members include teeth; and | |
| 3 | | the elongated member includes teeth meshingly engagable with the | |
| 4 | teeth on the first, second and third rotatable members. | | |

| 1 | 18. T | he weightlifting apparatus of claim 16 wherein the drive | |
|---|-----------------------------|--|--|
| 2 | comprises: | | |
| 3 | a rotatab | le shaft coupled to the first rotative member such that rotation | |
| 4 | of the shaft rotates the | first rotative member. | |
| | | | |
| 1 | 19. A | weightlifting apparatus for supporting a dumbbell, the | |
| 2 | apparatus comprising: | | |
| 3 | first and | second side frames; | |
| 4 | a horizon | ntal crossbar extending between the first and second side | |
| 5 | frames; | | |
| 6 | a pair of | dumbbell supports movably mounted on the crossbar; and | |
| 7 | a latch or | n each dumbbell support for releasably latching each dumbbell | |
| 8 | support in a horizontall | y adjustable position along the crossbar. | |
| | | | |
| 1 | 20. T | he weightlifting apparatus of claim 19 wherein the latch | |
| 2 | comprises: | | |
| 3 | a pluralit | y of spaced apertures formed along the crossbar; and | |
| 4 | a latch pi | n carried on the each dumbbell support, the pin releasably | |
| 5 | engagable with one of t | the apertures in the crossbar to releasably latch the dumbbell | |
| 6 | support in a selected ho | orizontally adjustable position along the crossbar. | |
| | | | |
| 1 | 21. T | he weightlifting apparatus of claim 20 further comprising: | |
| 2 | a pair of | dumbbell supports movably mounted on the crossbar; and | |
| 3 | a latch or | a each dumbbell support for releasably latching each dumbbell | |
| 4 | support in a horizontall | y adjustable position along the crossbar. | |
| | | | |
| 1 | 22. T | he weightlifting apparatus of claim 21 further comprising: | |
| 2 | the cross | bar mounting portion carried on each dumbbell support and | |
| 3 | movable along the crossbar; | | |

| 4 | an angularly adjustable, pivotal portion coupled to the crossbar | | |
|----|--|--|--|
| 5 | mounting portion, for receiving and supporting a dumbbell; | | |
| 6 | a dumbbell receiver carried on the pivotal portion; and | | |
| 7 | means for locking the dumbbell receiver in one of a plurality of angular | | |
| 8 | positions with respect to the crossbar mounting portion. | | |
| | | | |
| 1 | 23. A weightlifting apparatus for supporting a dumbbell, the | | |
| 2 | apparatus comprising: | | |
| 3 | first and second side frames; | | |
| 4 | a horizontal crossbar extending between the first and second side | | |
| 5 | frames; | | |
| 6 | a pair of dumbbell supports movably mounted on the crossbar; | | |
| 7 | the crossbar mounting portion carried on each dumbbell support and | | |
| 8 | movable along the crossbar; | | |
| 9 | an angularly adjustable, pivotal portion coupled to the crossbar | | |
| 10 | mounting portion, for receiving and supporting a dumbbell; | | |
| 11 | a dumbbell receiver carried on the pivotal portion; and | | |
| 12 | means for locking the dumbbell receiver in one of a plurality of angular | | |
| 13 | positions with respect to the crossbar mounting portion. | | |
| | | | |
| 1 | 24. A weightlifting apparatus for supporting a dumbbell, the | | |
| 2 | apparatus comprising: | | |
| 3 | first and second side frames; | | |
| 4 | a crossbar extending horizontally between the first and second side | | |
| 5 | frames; | | |
| 6 | elevation adjustment means carried on the first and second side frames | | |
| 7 | and coupled to the crossbar for moving and supporting the crossbar in a plurality of | | |
| 8 | different elevations; | | |
| 9 | at least one dumbbell support coupled to the crossbar for supporting a | | |
| 10 | dumbbell; and | | |
| 11 | a foot rest disposed within the first and second side frames. | | |

| 1 | | 25. | The weightlifting apparatus of claim 24 wherein the foot rest |
|---|--------------|---------|---|
| 2 | comprises: | | |
| 3 | | a sup | port frame providing vertical and for/aft adjustable positioning of |
| 4 | a foot suppo | ort men | aher |